

CLAIMS

1. A thermosetting and active energy ray curable resin composition comprising, as active constituents,
 - 5 a polymer having a (meth)acryl equivalent of 100 to 300 g/eq, a hydroxyl value of 50 to 550 mgKOH/g, an epoxy equivalent of 7000 g/eq or more, and a weight-average molecular weight of 5000 to 100000, and
 - a heat-curing agent.
- 10 2. The resin composition according to claim 1, wherein the polymer is a reaction product of the addition of a monocarboxylic acid having an unsaturated double bond to a polymer having an epoxy group.
3. The resin composition according to claim 2, wherein the polymer having an epoxy group is a homopolymer of glycidyl(meth)acrylate or a
 - 15 co-polymer of glycidyl(meth)acrylate.
4. The resin composition according to any one of claims 1 to 3, wherein the heat-curing agent is one or more compounds selected from the group consisting of chelate compounds; metal alkoxides, silane coupling agents and partial hydrolysate thereof, and acid anhydrides.
- 20 5. The resin composition according to any one of claims 1-4, further comprising a photopolymerization initiator.
6. A transfer material comprising a protective layer formed of a heat-crosslinking reaction product of the resin composition according to any one of claims 1 to 5 on a releasable base sheet.
- 25 7. The transfer material according to claim 6 further comprising an image layer and an adhesive layer in this order on the protective layer.
8. A method of producing a molded article, comprising the steps of:
 - adhering a transfer material according to claim 6 or 7 to a surface of a molded article;
 - 30 removing the releasable base sheet; and

irradiating the surface of the molded article with an active energy ray, thereby forming a protective layer on the surface of the molded article.

9. A method of producing a molded article, comprising the steps of:
5 applying a transfer material according to claim 6 or 7 to the inside of a mold;

filling a cavity of the mold with a resin by injection to thereby form a molded article and adhering the transfer material to a surface of the molded article simultaneously;

- 10 removing the releasable base sheet; and

irradiating the surface of the molded article with an active energy ray to thereby forming a protective layer on the surface of the molded article.